



# GROUP OP – P3000 SERIES

## PERFORMANCE DATA

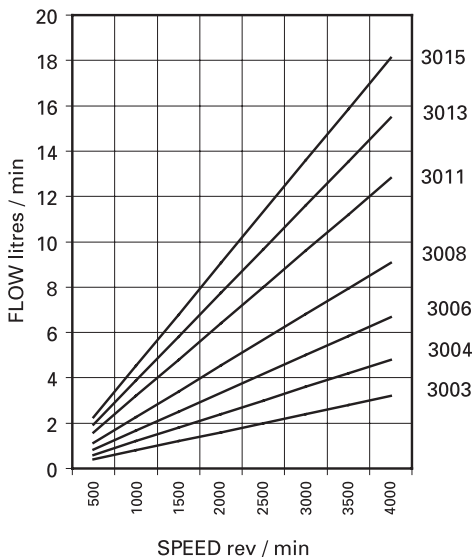
Pressures quoted are relief valve maximum by-pass  
Performance with SAE 20W oil at 50° C

PUMP TYPE	Nominal Displacement	Nominal Delivery @ 1500 rpm & Pressure P	Maximum Continuous Pressure P		Speed at Maximum Continuous Pressure P	
			psi	bar	Max	min
	cc/rev	lpm				
3003	0.80	1.20	3000	207	4000	500
3004	1.20	1.80	3000	207	4000	500
3006	1.67	2.50	3000	207	4000	500
3008	2.27	3.40	3000	207	4000	500
3011	3.20	4.80	3000	207	4000	500
3013	3.87	5.80	3000	207	4000	500
3015	4.53	6.80	3000	207	4000	600

## TYPICAL PERFORMANCE

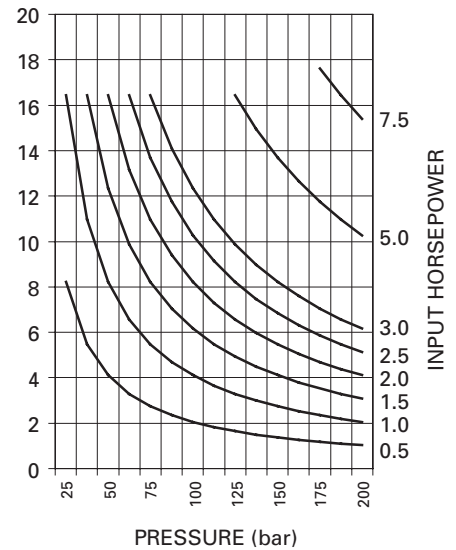
### TYPICAL PUMP DELIVERY

Flow at Max. Pressure.



### TYPICAL INPUT HORSEPOWER

Fluid SAE 20W  
Fluid Temperature 50° C





# GROUP 1P – P3000 SERIES

## PERFORMANCE DATA

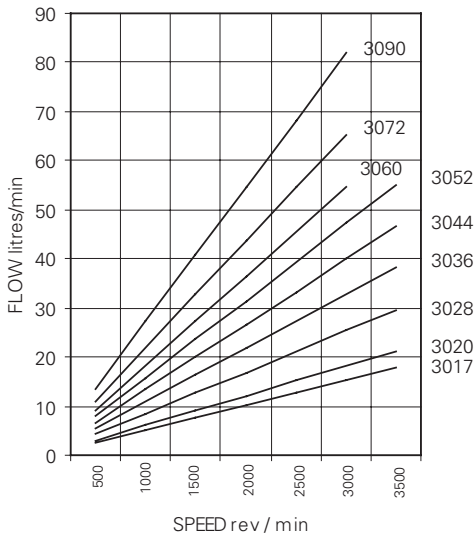
Pressures quoted are relief valve maximum by-pass  
Performance with SAE 20W oil at 50° C

PUMP TYPE	Nominal Displacement cc/rev	Nominal Delivery @ 1500 rpm & Pressure P lpm	Maximum Continuous Pressure P		Speed at Maximum Continuous Pressure P	
			psi	bar	max	min
3017	5.13	7.70	3000	207	3500	500
3020	6.07	9.10	3000	207	3500	500
3028	8.47	12.70	3000	207	3500	500
3036	10.93	16.40	3000	207	3500	600
3044	13.33	20.00	3000	207	3500	500
3052	15.73	23.60	3000	207	3500	600
3060	18.20	27.30	3000	207	3500	650
3072	21.80	32.70	2525	174	3000	650
3090	27.27	40.90	2000	138	2400	650

## TYPICAL PERFORMANCE

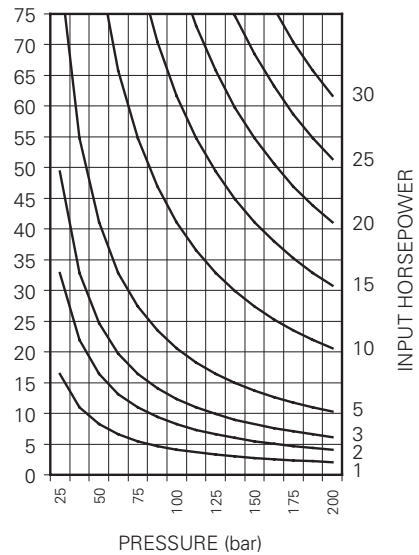
### TYPICAL PUMP DELIVERY

Flow at Max. Pressure.



### TYPICAL INPUT HORSEPOWER

Fluid SAE 20W  
Fluid Temperature 50° C





# GROUP 2P – P3000 SERIES

## PERFORMANCE DATA

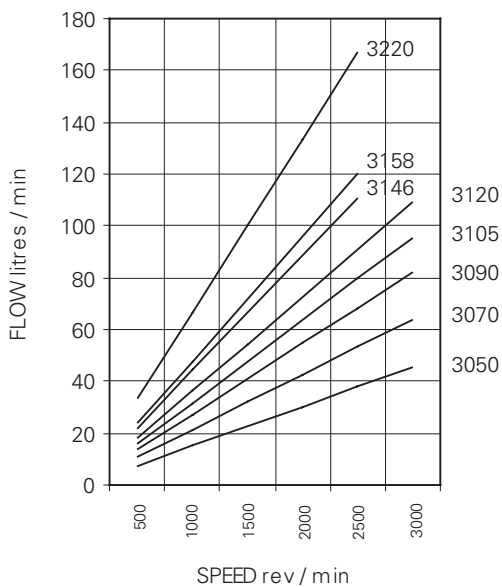
Pressures quoted are relief valve maximum by-pass  
Performance with SAE 20W oil at 50° C

PUMP TYPE	Nominal Displacement	Nominal Delivery @ 1500 rpm & Pressure P	Maximum Continuous Pressure P		Speed at Maximum Continuous Pressure P	
			psi	bar	max	min
	cc/rev	lpm				
3050	15.13	22.70	3000	207	3000	550
3070	21.33	32.00	3000	207	3000	550
3090	27.33	41.00	3000	207	3000	650
3105	31.80	47.70	3000	207	3000	600
3120	36.33	54.50	3000	207	3000	650
3146	44.33	66.50	2525	174	2500	650
3158	47.87	71.80	2525	174	2500	650
3220	66.67	100.00	2000	138	2500	650

## TYPICAL PERFORMANCE

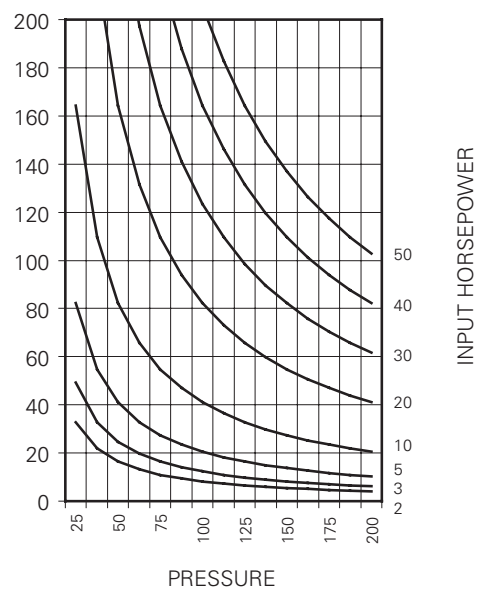
### TYPICAL PUMP DELIVERY

Flow at Max. Pressure.



### TYPICAL INPUT HORSEPOWER

Fluid SAE 20W  
Fluid Temperature 50° C





# GROUP 3P – P3000 SERIES

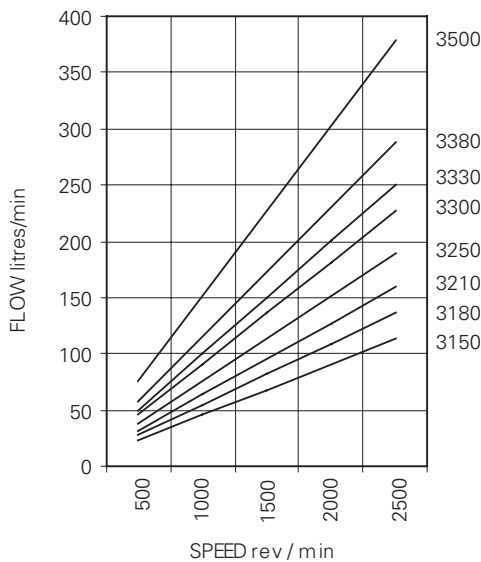
## PERFORMANCE DATA

Pressures quoted are relief valve maximum by-pass  
Performance with SAE 20W oil at 50° C

PUMP TYPE	Nominal Displacement	Nominal Delivery @ 1500 rpm & Pressure P	Maximum Continuous Pressure P		Speed at Maximum Continuous Pressure P	
			psi	bar	max	min
	cc/rev	lpm				
3150	45.33	68.00	3000	207	2500	550
3180	54.33	81.50	3000	207	2500	600
3210	63.67	95.50	3000	207	2500	700
3250	75.67	113.50	3000	207	2500	700
3300	90.67	136.00	2525	174	2500	700
3330	100.00	150.00	2300	159	2500	700
3380	115.33	173.00	2000	138	2500	700
3500	151.33	227.00	1500	100	2500	700

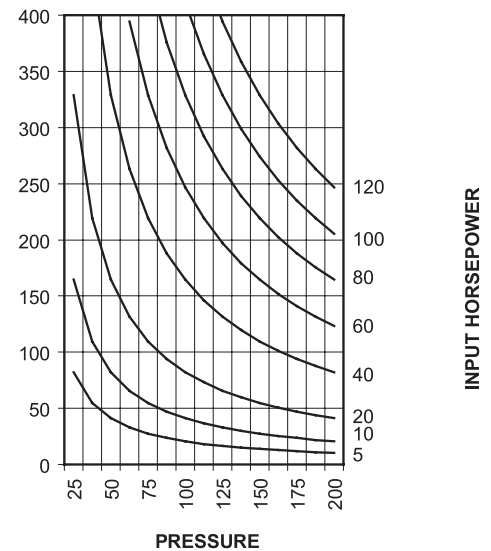
## TYPICAL PERFORMANCE

**TYPICAL PUMP DELIVERY**  
Flow at Max. Pressure.



**TYPICAL INPUT HORSEPOWER**

Fluid SAE 20W  
Fluid Temperature 50° C





## **POSSIBLE MULTIPLE PUMP GROUP COMBINATIONS**

- 0P 0P
- 0P 0P 0P
- 0P 0P 0P 0P
- 1P 0P
- 1P 1P
- 1P 1P 1P
- 1P 1P 1P 1P
- 2P 0P
- 2P 1P
- 2P 2P
- 2P 1P 1P
- 2P 2P 1P
- 2P 2P 2P
- 3P 1P
- 3P 2P
- 3P 3P
- 3P 2P 2P
- 3P 3P 2P
- 3P 3P 3P